MASSACHUSETTS HEALTH STATUS INDICATORS BY RACE AND ETHNICITY

Massachusetts Department of Public Health Bureau of Health Statistics, Research and Evaluation Division of Research and Epidemiology Fall 1996

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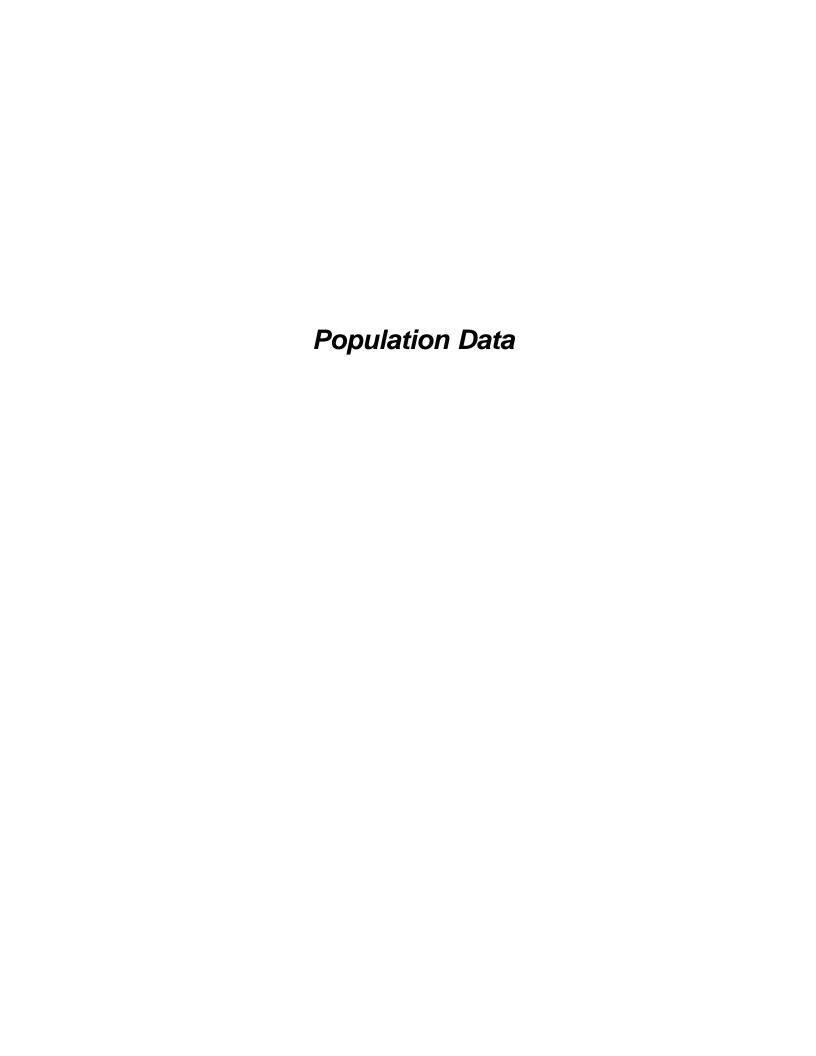
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1992-

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Technical note: age-adjusted and age-specific rates



Massachusetts Population by Race and Hispanic Origin: 1990 United States Census Data¹

	Number	Percentage (%)
White non-Hispanic	5,297,982	88.0
Black non-Hispanic	279,156	4.6
Hispanic	287,561	4.8
Asian & Pacific Islander	146,030	2.4
American Indian	12,959	0.2
TOTAL	6,016,425 ²	100.0

Data Source: US Bureau of Census, 1990 Census of Population, Modified Age, Race, Sex (MARS) File for Massachusetts.

Total is not sum of above categories. Asian and American Indians of Hispanic ancestry counted in both categories.

Selected Detailed Ancestry Groups, Massachusetts, 1990 Census¹

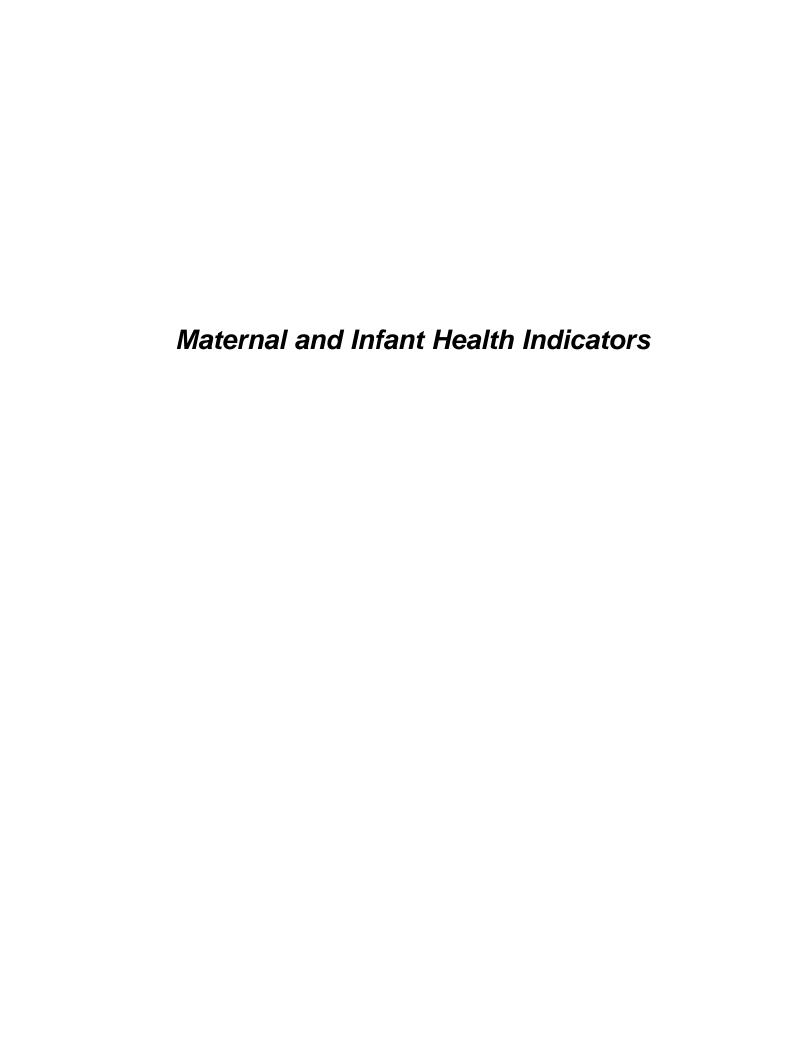
Ancestry Group	Number
Irish	1,570,742
English	920,850
Italian	843,524
French	634,833
German	497,462
Polish	359,677
French Canadian	310,636
Portuguese	289,424
Scottish	199,489
Swedish	143,841
Russian	133,080
Puerto Rican	103,792
Greek	81,769
Lithuanian	68,447
Chinese	47,245
Lebanese	29,700
Cape Verdean	29,326
Dominican	29,065
Armenian	28,714
Asian Indian	13,603
Vietnamese	13,101
Laotian	12,878
Cambodian	11,821
Mexican	11,421
Japanese	10,662
Cuban	6,468

¹ Data Source: US Bureau of the Census, 1990 Census of Population, <u>General Population</u> <u>Characteristics, 1990 Census</u>, CP-1-23, Table 23.

Massachusetts Population by Race and Hispanic Origin: 1995 Estimates¹

	Number	Percentage (%)
White non-Hispanic	5,309,417	85.6
Black non-Hispanic	312,168	5.0
Hispanic	374,108	6.0
Asian & Other	208,018	3.4
TOTAL	6,203,711	100.0

Data Source: Massachusetts Institute of Social and Economic Research, University of Massachusetts, Amherst, unpublished estimates September 1996.

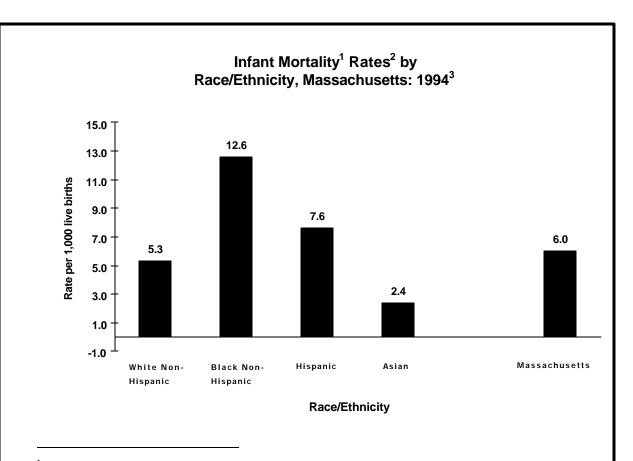


Number and Percentage of Births by Detailed Race/Ethnicity, Massachusetts, 1994³

Race and Ethnicity	Number	Percentage (%)	
White non-Hispanic	64,576	77.1	
Black non-Hispanic	6,258	7.5	
Haitian	899	1.1	
Other West Indian	581	0.7	
American	3,668	4.4	
Other Black	1,110	1.3	
Hispanic	8,429	10.1	
Puerto Rican	4,560	5.4	
Dominican	1,387	1.7	
Central American	962	1.1	
South American	780	0.9	
Other Hispanic	740	0.9	
Asian	3,382	4.0	
Chinese	1,030	1.2	
Vietnamese	645	0.8	
Cambodian	496	0.6	
Other Southeast Asian	157	0.2	
Other Asian	1,054	1.3	
Other ¹	949	1.1	
Unknown ²	164	0.2	
State Total	83,758	100.0	

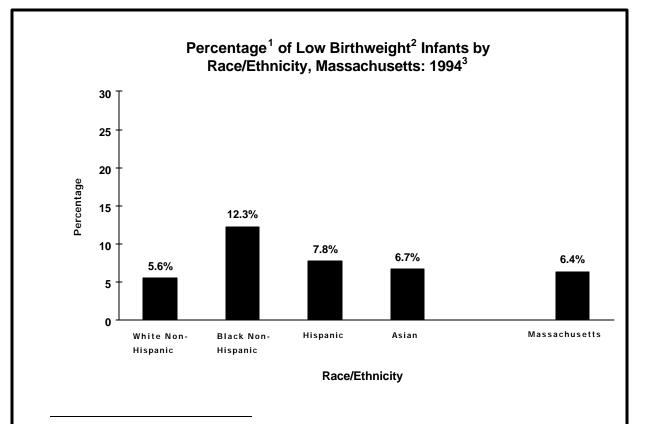
¹ Other: Mothers who designated themselves as "Other" race

² Unknown: Mothers who did not indicate a race/ethnicity
³ Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

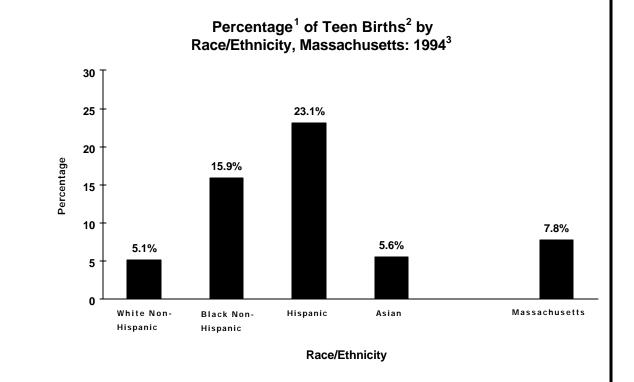


Deaths to children under the age of one
 Rates are per 1,000 live births; births of infants of unknown race are allocated into the race categories according to the distribution of births of known race.

Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

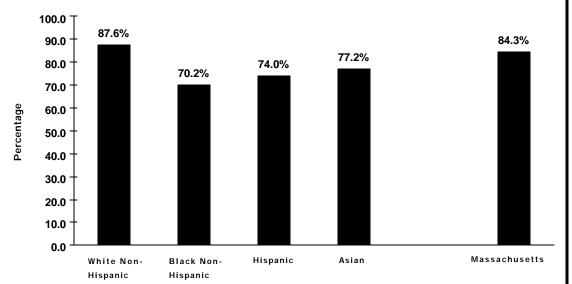


 ¹The number of low birthweight infants as a percentage of all births for the specified group
 ² Low birthweight: < 2,500 grams or 5.5 pounds
 ³ Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health



The number of teen births as a percentage of all births for the specified group
 Births to mothers under the age of 20
 Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

Percentage¹ of Women Receiving Adequate Prenatal Care² by Race/Ethnicity, Massachusetts: 1994³

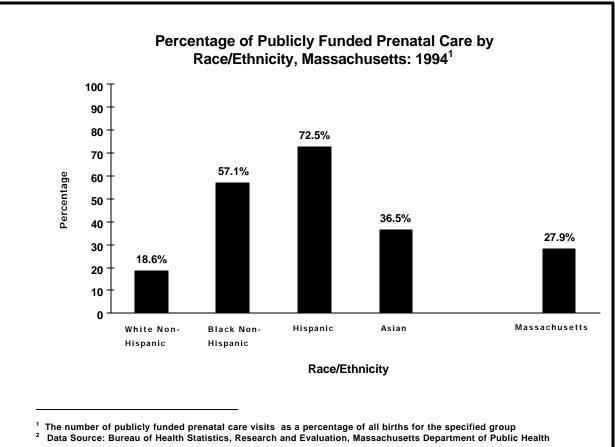


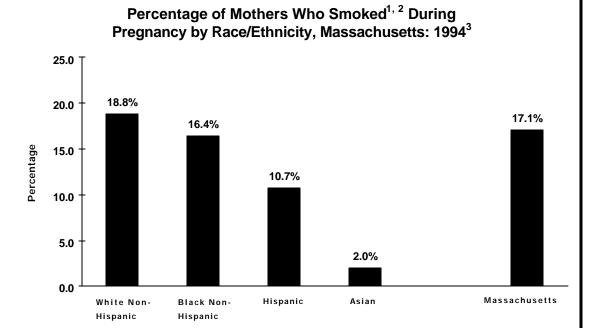
Race/Ethnicity

² Adequate prenatal care is defined as having 9 or more prenatal care visits beginning in the first trimester

¹The number of women receiving adequate prenatal care as a percentage of all births with known adequacy scores for the specified group

Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health



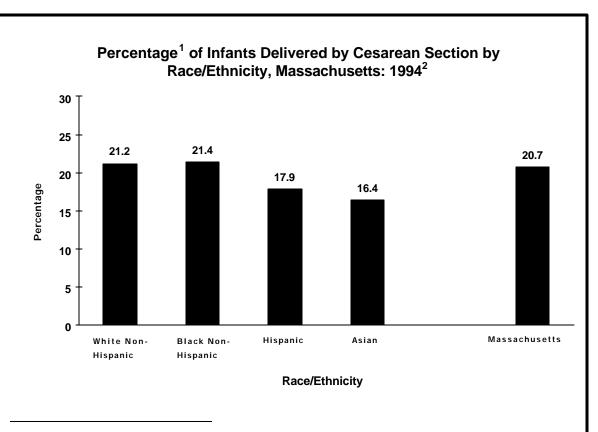


Race/Ethnicity

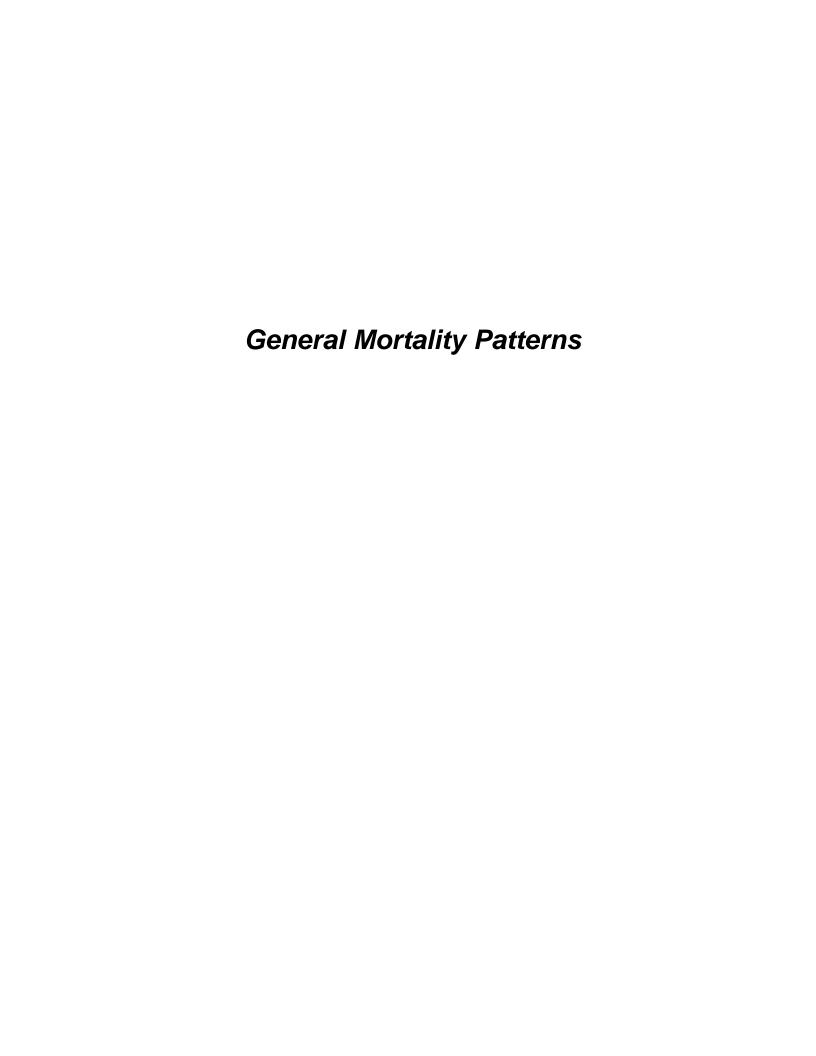
Based on information provided on the birth certificate by the mother. Mothers who have more than one delivery are counted for each birth

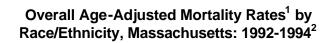
² Hospitals reporting smoking rates more than 3 standard deviations below the mean level of hospital reporting (18.2%) are excluded. Using this criterion, the following hospitals are excluded: Martha's Vineyard (6.8%), Newton-Wellesley (4.6%), Massachusetts General (5.4%), Brigham and Women's (2.3%) and North Shore Birth Center (2.6%).

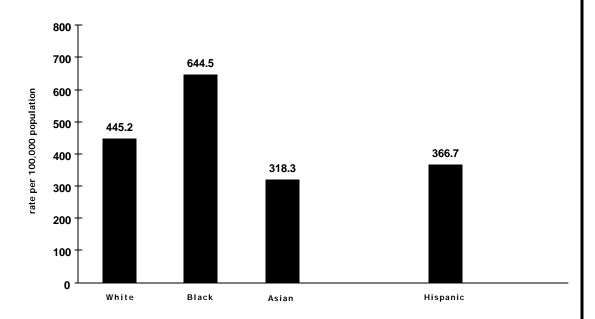
³ Date Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health



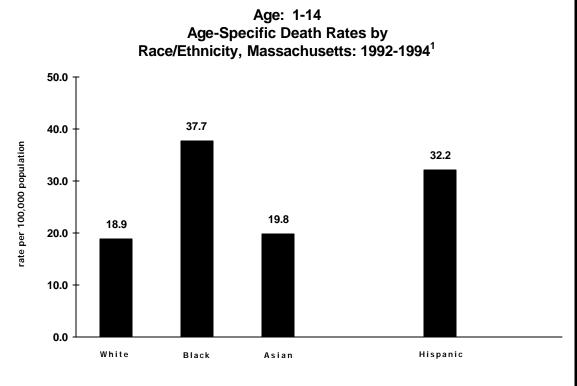
¹The number of cesarean section deliveries as a percentage of all births for the specified group ² Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health



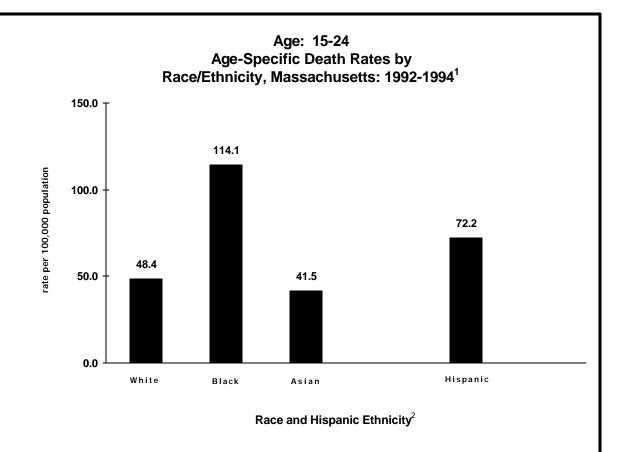




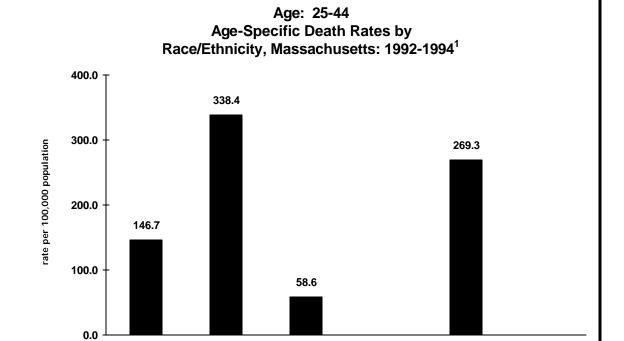
All rates are age-adjusted by the direct method using the 1940 U.S. Census population
 Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health
 Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification



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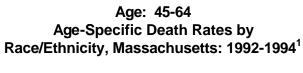
Asian

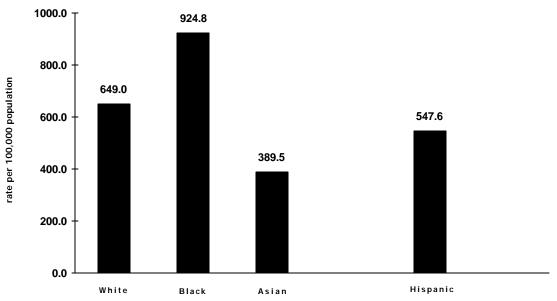
Hispanic

Black

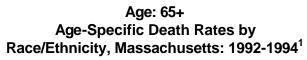
White

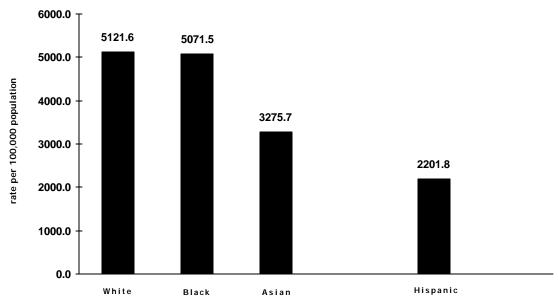
Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification





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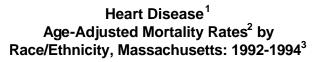
Number of Deaths by Hispanic Ancestry for Selected Causes of Death: Massachusetts: 1992-1994¹

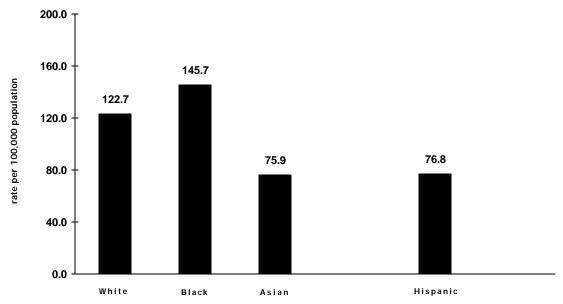
	Heart Disease ²	AIDS/HIV ³	Cancer⁴	Homicide ⁵	ALL DEATHS
Puerto Rican	277	304	220	73	1,743
Dominican	22	8	26	26	168
Cuban	44	8	27	1	136
Other Hispanic	60	26	54	17	282
All Hispanics	403	346	327	117	2,389

Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health
 ICD-9 codes: 390-398, 402, 404-429
 ICD-9 codes: 042-044

ICD-9 codes: 140-208
5 ICD-9 codes: 960-978, including legal intervention

Cause-Specific Mortality Indicators





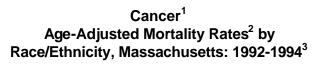
¹ ICD-9 codes: 390-398, 402, 404-429

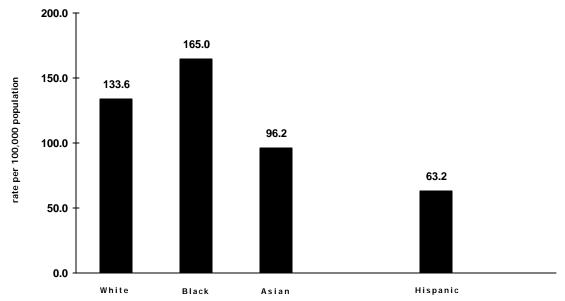
¹ ICD-9 codes: 39U-398, 4UZ, 4U4-4Z9

² All rates are age-adjusted by the direct method using the 1940 U.S. Census population

³ Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

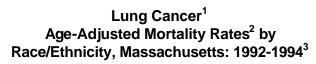
⁴ Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification

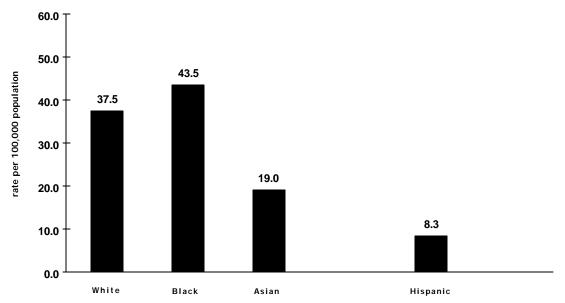




¹ ICD-9 codes: 140-208

ICD-9 codes: 140-208
 All rates are age-adjusted by the direct method using the 1940 U.S. Census population
 Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health
 Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification



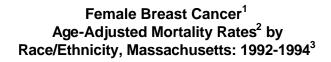


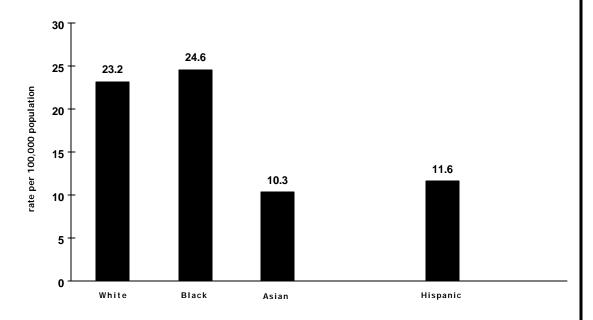
² All rates are age-adjusted by the direct method using the 1940 U.S. Census population

³ Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

¹ ICD-9 code: 160-165

⁴ Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification

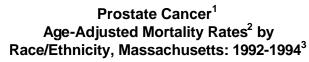


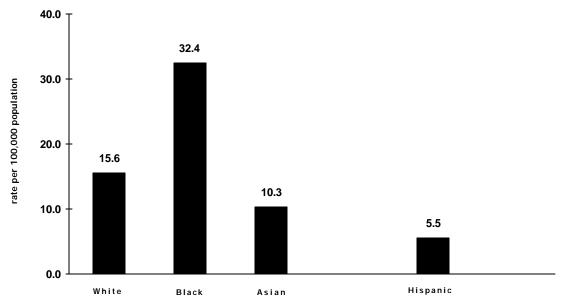


² All rates are age-adjusted by the direct method using the 1940 U.S. Census population

³ Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

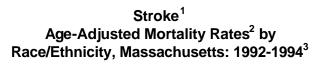
Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification

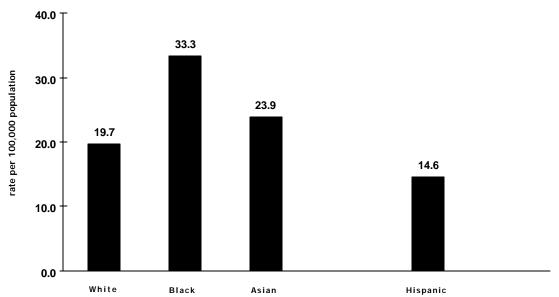




¹ ICD-9 code: 185

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 All rates are age-adjusted by the direct method using the 1940 U.S. Census population
 Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health
 Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification



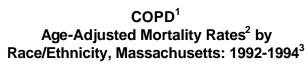


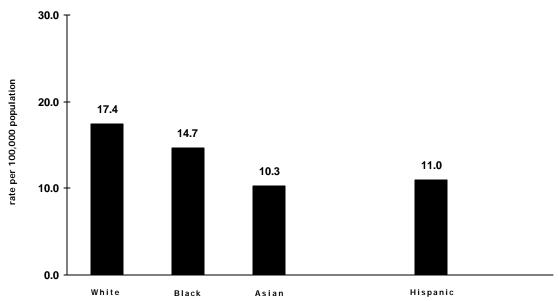
² All rates are age-adjusted by the direct method using the 1940 U.S. Census population

³ Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

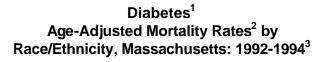
¹ ICD-9 codes: 430-438

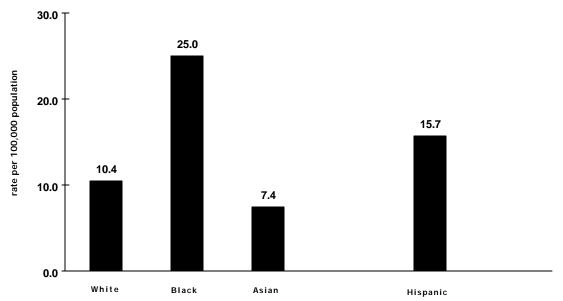
⁴ Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification





Chronic obstructive pulmonary disease, ICD-9 codes: 490-496
 All rates are age-adjusted by the direct method using the 1940 U.S. Census population
 Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health
 Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification





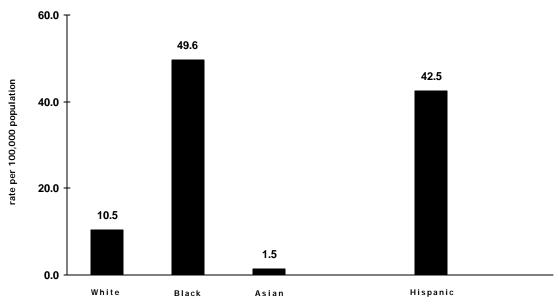
² All rates are age-adjusted by the direct method using the 1940 U.S. Census population

³ Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

¹ ICD-9 code: 250

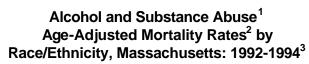
⁴ Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification

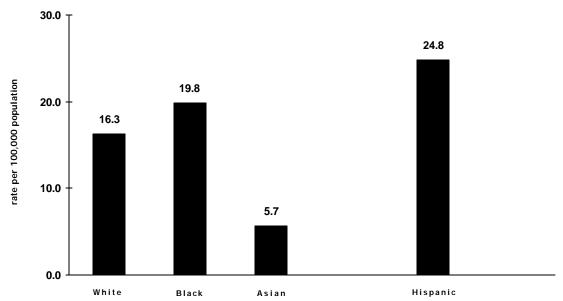




¹ ICD-9 codes: 042-044

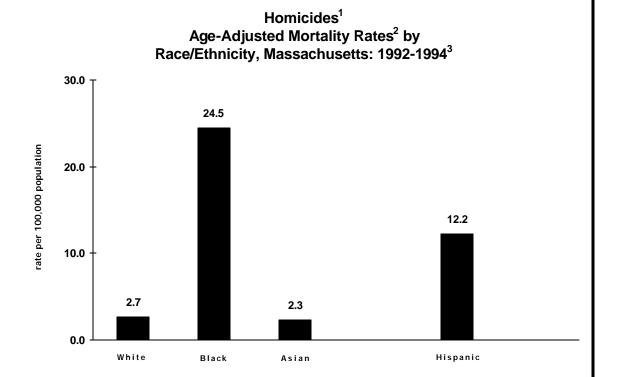
² All rates are age-adjusted by the direct method using the 1940 U.S. Census population
3 Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health
4 Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification



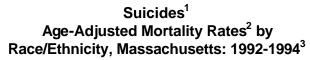


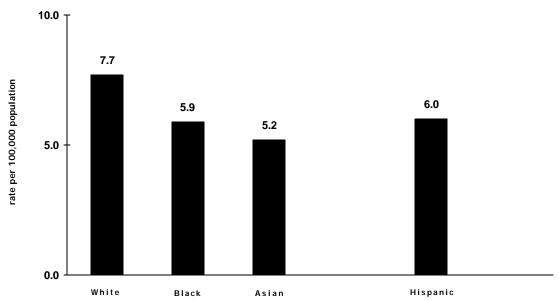
¹ ICD-9 codes: see the detail list in appendix
2 All rates are age-adjusted by the direct method using the 1940 U.S. Census population
3 Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

⁴ Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification



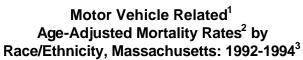
 ¹ ICD-9 codes: 960-978, including legal intervention
 2 All rates are age-adjusted by the direct method using the 1940 U.S. Census population
 3 Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health
 4 Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification

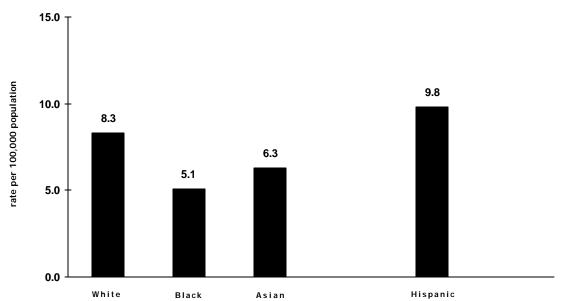




Race and Hispanic Ethnicity⁴

ICD-9 codes: 950-959
 All rates are age-adjusted by the direct method using the 1940 U.S. Census population
 Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health
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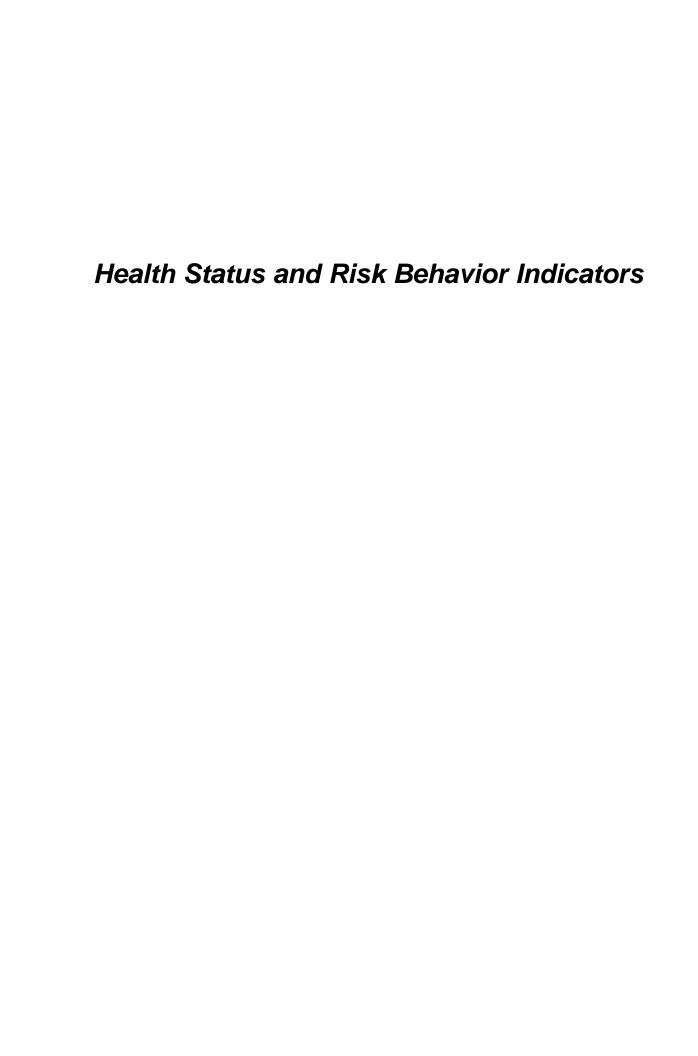


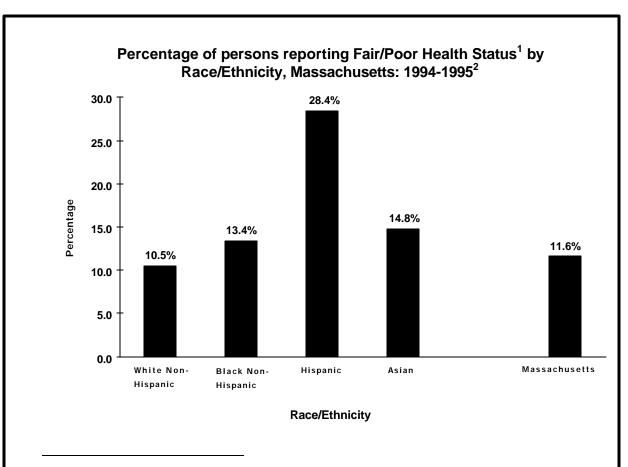


Race and Hispanic Ethnicity⁴

¹ ICD-9 codes: 810-825

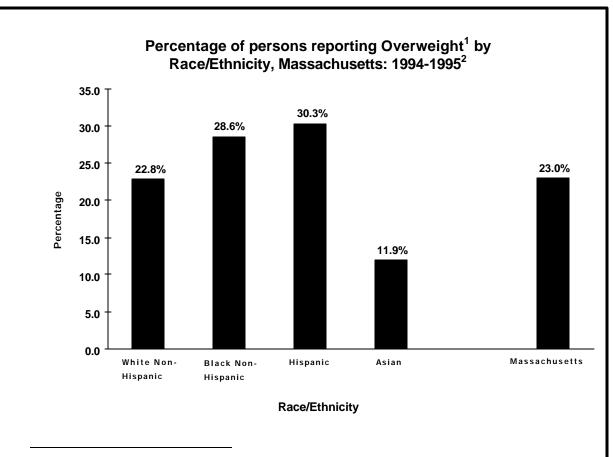
ICD-9 codes: 810-825
 All rates are age-adjusted by the direct method using the 1940 U.S. Census population
 Data Source: Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health
 Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification





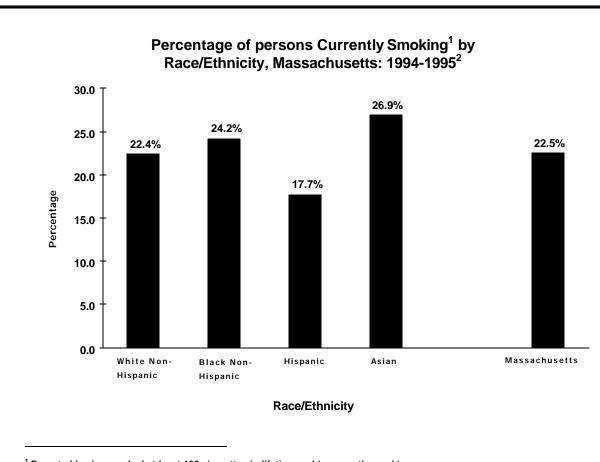
¹ Reported having "poor/fair" health status

² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance Program Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health



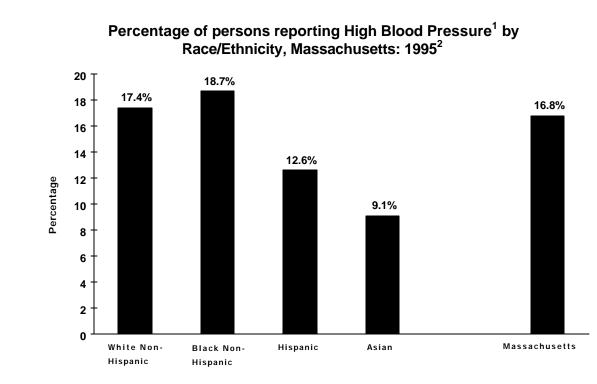
¹ Body Mass Index (computed from self-reported height and weight) of at least 27.8 kg/m² (men) or 27.3 kg/m² (women)
² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance Program

Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health



¹ Reported having smoked at least 100 cigarettes in lifetime and is currently smoking now

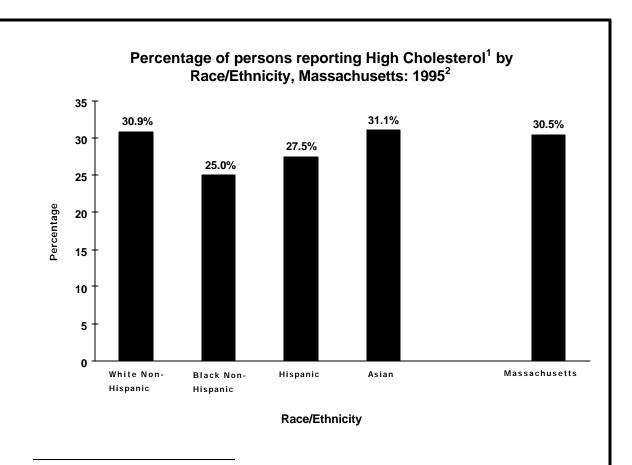
² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance Program Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health



Race/Ethnicity

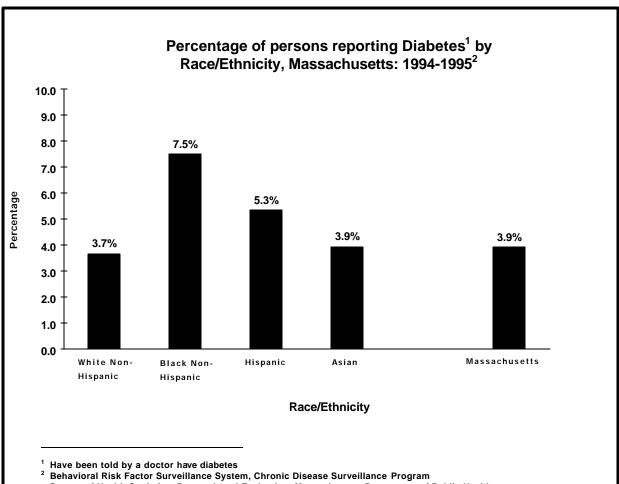
¹ Reported having been told by a doctor or other health professional that blood pressure was high

² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance System Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

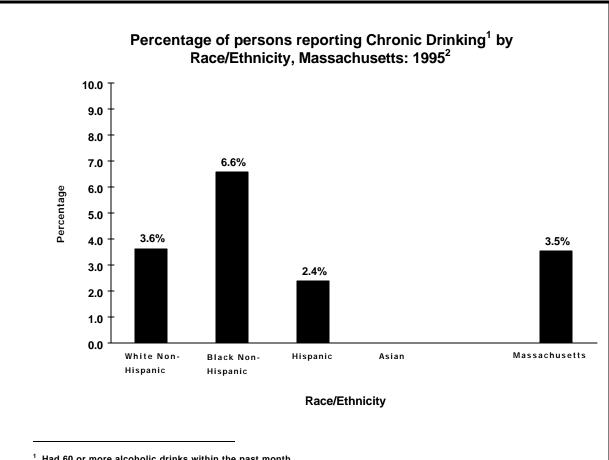


¹ Reported having been told by a doctor or other health professional that blood cholesterol was high

² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance Program Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

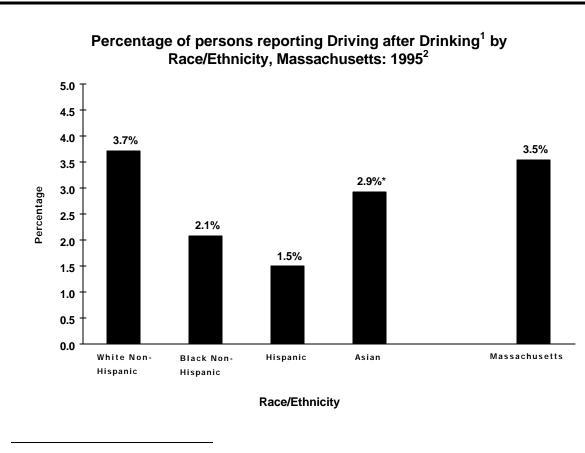


Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

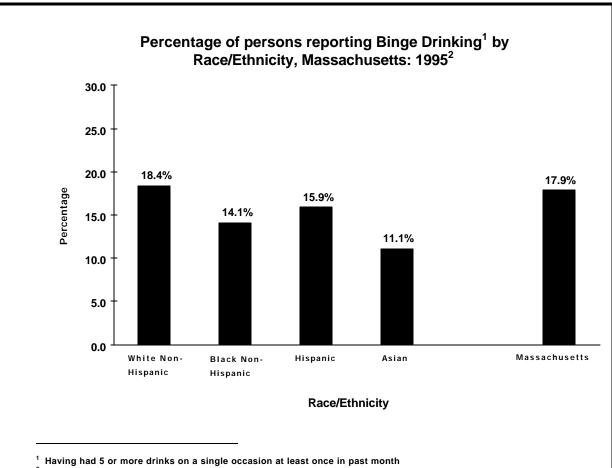


¹ Had 60 or more alcoholic drinks within the past month

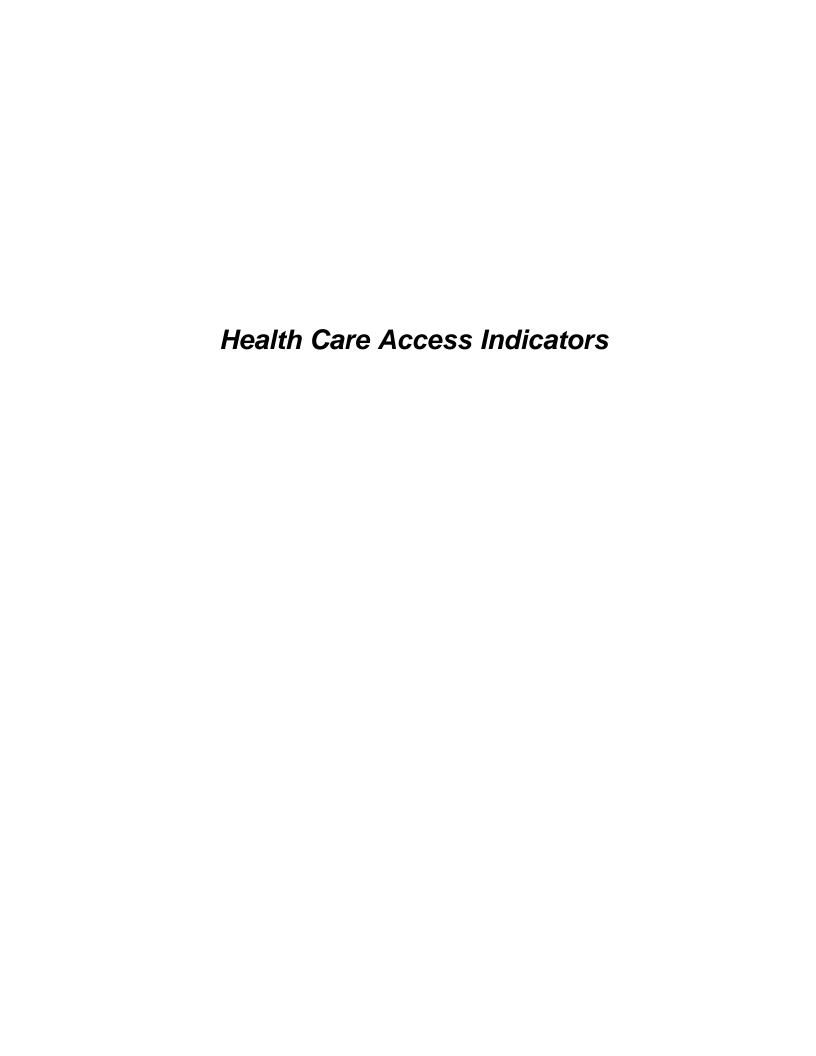
² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance System Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

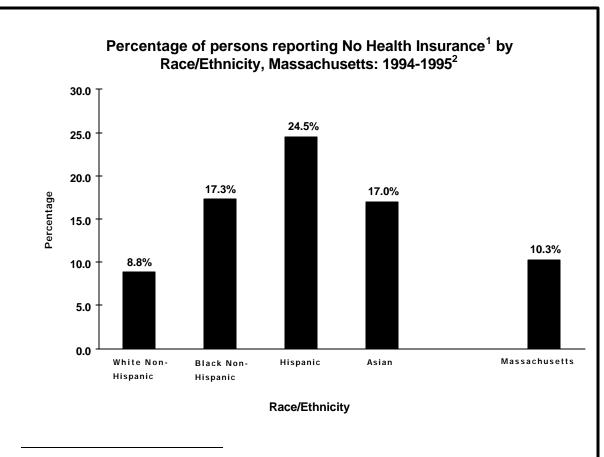


¹ Drove at least once after having had "perhaps too much to drink" in the past month
² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance Program Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health



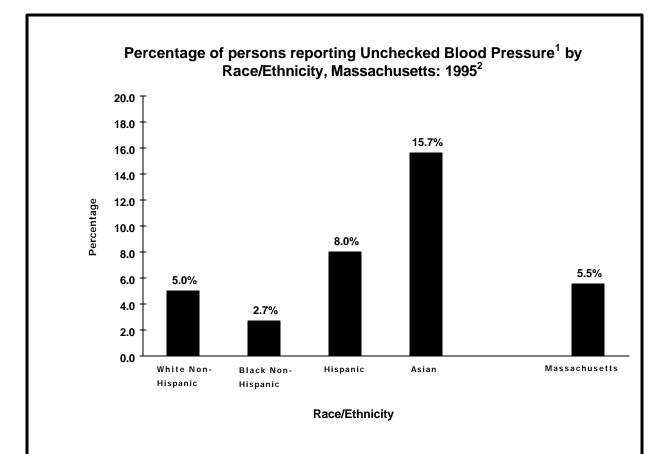
Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance System Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health





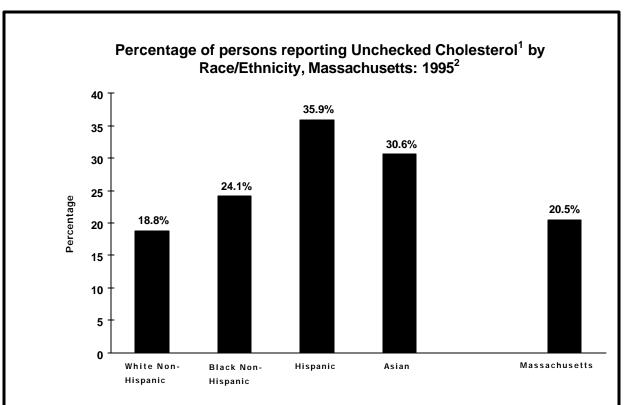
¹ Reported not having any kind of health insurance (including government plans)

² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance System Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health



¹ Reported not having had blood pressure checked by a doctor, nurse, or other health professional within the past 2 years

² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance Program Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

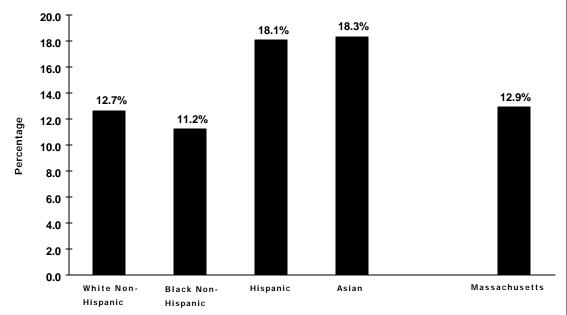


Race/Ethnicity

¹ Reported not having blood cholesterol checked within the past 5 years

² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance Program Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

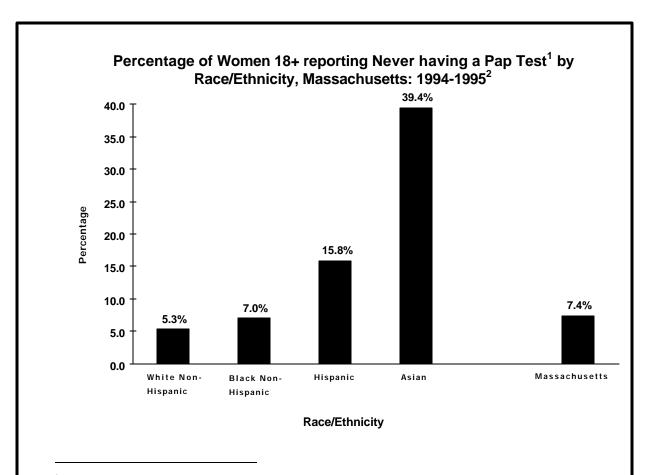




Race/Ethnicity

¹ Reported never having a mammogram among women 40 years and older

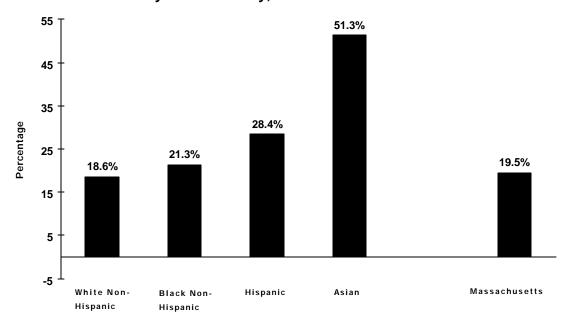
² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance Program Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health



¹ Reported never having had a Pap test and had an intact uterine cervix

² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance System Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

Percentage of persons 40+reporting Never having had a Digital Rectal Examination¹ by Race/Ethnicity, Massachusetts: 1995²



Race/Ethnicity

¹ Having had no digital rectial examination among respondents 40 years and older

² Data Source: Behavioral Risk Factor Surveillance System, Chronic Disease Surveillance Program Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health

Technical Notes

Age-Adjusted Rate

A procedure for adjusting rates, designed to minimize the distortions created by differences in age distribution when comparing rates for populations with different age compositions. This calculation is useful when comparing death rates from different populations or in the same population over time. For example, if one wished to compare the 1994 death rates between Hispanics and Whites, the age-adjusted formula would account for the fact that only 4% of Hispanic residents in Massachusetts were 65 years of age or older, whereas 14.5% of White Massachusetts residents were in this age group.

Age-adjusted rates are calculated by weighting the age-specific rates for a given year by the age distribution of a standard population. The weighted age-specific rates are then added to produce the adjusted rate for all ages combined. The 1940 U.S. population is used as the standard in this document for consistency with data published by NCHS.

Age-Specific Rate

Rates are for a specified age group. Age-specific rates are calculated by dividing the actual number of deaths in a given year by the estimated population in that age group for that year. The numerator and denominator refer to the same age group.